| Ref<br># | Hits  | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|----------|-------|---|---|---------------------|---------|------------------|
| S1       | 574   | furukawa.in.  | US-PGPUB  | OR                  | ON      | 2004/09/10 12:57 |
| S2       | 0     | furukawa.in. and wo98/28735.pn.   | US-PGPUB  | OR                  | ON      | 2004/09/10 12:57 |
| S3       | 0     | furukawa.in. and "9828735".pn.  | US-PGPUB  | OR                  | ON      | 2004/09/10 12:59 |
| S4       | 2     | furukawa.in. and "9828735".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2004/09/10 13:00 |
| S5       | 55866 | <pre>@pd&lt;"19990723" and (writ\$4? same (adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4))</pre>   | USPAT   | OR                  | ON      | 2005/04/15 15:41 |
| S6       | 1863  | <pre>@pd&lt;"19990723" and (writ\$4? same (adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) same circuit same record\$4)</pre>                               | USPAT   | OR                  | ON      | 2003/06/20 11:14 |
| S7       | 2     | @pd<"19990723" and ((writ\$4?<br>near (adapt\$4 or fit\$4 or alter\$4<br>or chang\$4 or adjust\$4 or<br>modify\$4) near circuit) same<br>record\$4)                               | USPAT   | OR                  | ON      | 2003/06/20 10:56 |
| S8       | 322   | @pd<"19990723" and (writ\$4? same (adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) same circuit same record\$4) and discriminat\$3?                         | USPAT   | OR                  | ON      | 2003/06/20 11:15 |
| S9       | 42    | @pd<"19990723" and (writ\$4? same (adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) same circuit same record\$4 same discriminat\$3?)                        | USPAT   | OR                  | ON      | 2003/06/20 11:17 |
| S10      | 42    | @pd<"19990723" and (writ\$4? same (adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) same circuit same record\$4 same discriminat\$3?)                        | US-PGPUB;<br>USPAT                                      | OR                  | ON      | 2003/06/20 11:17 |
| S11      | 79    | @pd<"19990723" and (writ\$4?<br>same (adapt\$4 or fit\$4 or alter\$4<br>or chang\$4 or adjust\$4 or<br>modify\$4) same circuit same<br>record\$4 same discriminat\$3?)            | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB                  | OR                  | ON      | 2003/06/20 11:27 |
| S12      | 5     | @pd<"19990723" and (writ\$4? same (adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) same circuit same record\$4 same discriminat\$3?) and (pulse same train) | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB                  | OR                  | ON      | 2003/06/23 16:20 |

| S13 | 11  | @pd<"19990723" and (writ\$4? same (adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) same circuit same record\$4 same discriminat\$3? same optic\$3)     | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB                  | OR | ON  | 2003/06/20 11:31 |
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| S14 | 900 | @pd<"19990723" and writ\$3 and circuit and ((adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) near pulse) and optic\$3                                  | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB                  | OR | ON  | 2003/06/24 09:31 |
| S15 | 14  | @pd<"19990723" and writ\$3 and circuit and ((adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) near pulse) and optic\$3 and nrzi                         | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB                  | OR | ON  | 2003/06/20 12:08 |
| S16 | 1   | ("5568461").PN.  | USPAT;<br>USOCR   | OR | OFF | 2003/06/20 14:02 |
| S17 | 3   | @pd<"19990723" and "temporal fluctuation" and writ\$3 and optical and pulse and (adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4)and (pulse same train) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2003/06/23 16:21 |

| Sarch History - 4/21 (2528) "559635" "556628" "5549037" USPAT OR ON 2003/06/24 07:58 "579635" "55962456" "5602800" "5629313" "5674233" "5784388" "5991252" "605804" 6192017" "6411579" 61015115" "5997542" 66028728" 6075663" "6500502" "5841601" "5854714" "56966399" "5726818" "5760948" "8586964" "5909332" "5333140" "5856964" "5909332" "5333140" "5856964" "5909332" "5333140" "5856964" "5909332" "5333140" "5856964" "590333" "532656" "554975" "5872665" "5241524" "53367514" "5346743" "5560688" "5777964" "590333" "5387514" "53875712" "5541658" "5587579" "5872665" "5241524" "5330579" "5872665" "5241524" "53305791" "5757365" "532741" "53305791" "5856688" "5777964" "5900334" "6001807" "6007284" "6115350") Dn. ("4809090" "4904938" "5400313" "5400513" "5400540" "4390900" "4904938" "5400313" "5560688" "5777664" "5903334" "601850" "6067284" "6115354" "6137646" "6205102" "6080479"    |            | ·          |   |       |    |    |                  |
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| Search History 4/21/05,12:09,37 RMS 66,092 "3"4271334"<br>C:\APPS\EAST\Workspaces,316,026 "4554597" "4561083"   |            |            |   |       |    |    |                  |
| -: \AFF3\LA31\Works\far\4541026\\4554597\\\4561083\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  |            |            | "4893910" "4970621" "5371721"                           |       |    |    |                  |
| -: \AFF3\LA31\Works\far\4541026\\4554597\\\4561083\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  | Search His | tory 4/21  | "5450383" "6141162" "4339770"  <br>  12:00:37 pM        |       |    |    |                  |
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|   |            | ,          | "4541026" "4554597" "4561083"                           |       |    |    |                  |
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| S19      |         | 193    | ("5796535" "5966258" "5648952"                                    | USPAT | OR  | ON | 2003/06/24 07:59 |
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|          |         |        | "5257256" "5592456" "5602806"                                     |       |     |    |                  |
| -        |         |        | "5629913" "5642343" "5784348"                                     |       |     |    |                  |
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|          |         |        | "5991252" "6058084" "6192017"                                     |       |     |    |                  |
| 1        |         |        | "6411579" "6108151" "5987542"                                     |       |     |    |                  |
|          |         |        | "6028728" "6075663" "5600502"                                     |       |     |    |                  |
|          |         |        | "5841601" "5854714" "5696639"                                     |       |     |    |                  |
|          |         |        | "5726818" "5760984" "5812336"                                     |       |     |    |                  |
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|          |         |        | "5903537" "4882639" "5543975"                                     |       |     |    |                  |
|          |         |        | "5872665" "5241524" "5321672"                                     |       |     |    |                  |
|          |         |        |   |       |     |    |                  |
|          |         |        | "5544135" "5568465" "5367514"                                     |       |     |    | ·                |
|          |         |        | "5383175" "5561656" "5631887"                                     |       |     |    |                  |
|          |         |        | "5757735" "5327411" "5339298"                                     |       | , , |    |                  |
|          | ļ       |        | "5530688" "5777964" "5920534"                                     |       |     |    |                  |
|          |         |        | "6031814" "6115350").pn.  |       |     |    |                  |
|          |         |        | ("4809090" "4904938" "5400313"                                    |       |     |    |                  |
|          | ŀ       |        | "5406540" "5438581" "5576905"                                     |       |     |    |                  |
|          |         |        | "5650882" "5706265" "5754351"                                     |       |     |    |                  |
|          |         |        | "5764431" "5802032" "5802031"                                     |       |     |    |                  |
|          |         |        | "5852523" "5909387" "6018507"                                     |       |     |    |                  |
|          | 1       |        | "6067284" "6115344" "6137646"                                     |       |     |    |                  |
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|          |         |        | "6205102" "6208479" "6243339"                                     |       |     |    |                  |
|          |         |        | "6285647" "6305629" RE37818                                       |       |     | ,  |                  |
|          |         |        | "6445522" "6473378" "6487151"                                     |       |     |    |                  |
|          |         |        | "4791627" "4841383" "5001692"                                     |       |     |    |                  |
|          |         |        | "5307214" "4341964" "4410817"                                     |       |     |    |                  |
|          |         |        | "4525753" "5236735" "5359467"                                     |       |     |    |                  |
|          |         |        | "5537379" "5638225" "5682367"                                     |       |     |    |                  |
|          |         |        | "5757576" "5761170" "5774440"                                     |       |     |    |                  |
|          |         |        | "5818807" "5828629" "5859825"                                     |       |     |    |                  |
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|          |         | •      | ("5412626" "5703855" "5848045"                                    |       |     |    |                  |
|          |         |        | "4835759" "5732061" "5790482"                                     |       |     |    |                  |
|          |         |        | "5487059" "5513165" "5712839"                                     |       |     |    |                  |
|          |         |        |   |       |     |    |                  |
|          |         |        | "5424881" "5463600" "5481525"                                     |       |     |    |                  |
|          |         |        | "5502711" "5561642" "5577019"                                     | ,     |     |    |                  |
|          |         |        | "5581535" "5590111" "5745467"                                     |       |     |    |                  |
|          |         |        | "5812334" "5887010" "5909331"                                     |       |     |    |                  |
|          |         |        | "5956357" "5978334" "6490302"                                     |       |     |    |                  |
|          |         |        | "5204848" "6069759" "5668678"                                     |       |     |    |                  |
|          |         |        | "6144513" "6052248" "6076063"                                     |       |     |    |                  |
|          |         |        | "5771127" "5802118" "5835295"                                     |       |     |    |                  |
|          |         |        | "5892632" "5926490" "5961658"                                     |       |     |    |                  |
|          |         |        | "5966415" "6246723" "6243673"                                     |       |     |    |                  |
|          |         |        | "5614960" "5526333" "5914927"                                     |       |     |    |                  |
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|          |         |        | "4350456" "4553178" "4847558"                                     |       |     |    |                  |
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|          | 1       |        | ("5298998" "5469422" "5594553"                                    |       |     |    |                  |
|          |         |        | ( 3298998   |       |     |    |                  |
|          |         |        |   |       |     |    |                  |
|          |         |        | "6175456" "6307692" "4888750"                                     |       |     |    |                  |
|          |         |        | "5872763" "5912637" "5640381"                                     |       |     |    |                  |
|          |         |        | "4893910" "4970621" "5371721"                                     |       |     |    |                  |
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|          | '       | ·      |   |       |     |    |                  |
| 1        | ı       |        | "4610000" "4614070" "4917007"                                     | I     | I   | I  | ı                |
|          |         |        |   |       |     |    |                  |

| S20        | 150        | ("5796535" "5966258" "5648952"                            | USPAT  | OR | ON  | 2003/06/24 08:16 |
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|            |            | "5257256" "5592456" "5602806"                             |        |    |     |                  |
|            |            | "5629913" "5642343" "5784348"                             |        |    |     |                  |
|            |            | "5991252" "6058084" "6192017"                             |        |    |     |                  |
|            | `          | "6411579" "6108151" "5987542"                             |        |    |     |                  |
|            |            | "6028728" "6075663" "5600502"                             |        |    |     |                  |
|            |            | "5841601" "5854714" "5696639"                             |        |    |     |                  |
|            |            | "5726818" "5760984" "5812336"                             |        |    |     |                  |
|            |            | "5909332" "5333140" "5856964"                             |        |    |     |                  |
|            |            | "5909332 3333140 3636964<br>"5903537" "4882639" "5543975" |        |    |     |                  |
|            |            | · · · · · · · · · · · · · · · ·                           |        |    |     |                  |
|            |            | "5872665" "5241524" "5321672"                             |        |    |     |                  |
|            |            | "5544135" "5568465" "5367514"                             |        | 1  |     |                  |
|            |            | "5383175" "5561656" "5631887"                             | İ      |    |     |                  |
|            |            | "5757735" "5327411" "5339298"                             | 1      |    |     |                  |
|            |            | "5530688" "5777964" "5920534"                             |        |    |     |                  |
|            |            | "6031814" "6115350").pn.                                  |        |    |     |                  |
|            |            | ("4809090" "4904938" "5400313"                            |        |    |     |                  |
|            |            | "5406540" "5438581" "5576905"                             | İ      |    |     |                  |
|            |            | "5650882" "5706265" "5754351"                             |        |    |     |                  |
|            |            | "5764431" "5802032" "5802031"                             |        |    |     |                  |
|            |            | "5852523" "5909387" "6018507"                             |        |    |     |                  |
|            |            | "6067284" "6115344" "6137646"                             |        |    |     |                  |
|            |            | "6205102" "6208479" "6243339"                             |        |    |     |                  |
|            |            | "6285647" "6305629" RE37818                               |        |    |     |                  |
|            |            | "6445522" "6473378" "6487151"                             |        |    |     |                  |
|            |            | "4791627" "4841383" "5001692"                             |        |    |     |                  |
|            |            | "5307214" "4341964" "4410817"                             |        | İ  |     |                  |
|            |            | "4525753" "5236735" "5359467"                             |        |    |     |                  |
|            |            | "5537379" "5638225" "5682367"                             |        |    |     |                  |
|            |            | "5757576" "5761170" "577 <del>444</del> 0"                | İ      | 1  |     |                  |
|            |            | "5818807" "5828629" "5859825"                             |        |    |     |                  |
|            |            | "6028834" "6301068" "5386405"                             |        |    |     |                  |
|            |            | "6269060" "6504807").pn.                                  |        |    |     |                  |
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|            |            | ("5412626" "5703855" "5848045"                            |        |    |     |                  |
|            |            | "4835759" "5732061" "5790482"                             |        |    |     |                  |
|            |            | "5487059" "5513165" "5712839"                             |        |    |     |                  |
|            |            | "5424881" "5463600" "5481525"                             |        |    |     |                  |
|            |            | "5502711" "5561642" "5577019"                             |        |    |     |                  |
|            |            | "5581535" "5590111" "5745467"                             |        |    |     |                  |
|            |            | "5812334" "5887010" "5909331"                             |        |    |     |                  |
|            |            | "5956357" "5978334" "6490302"                             |        |    |     |                  |
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|            |            | "5771127" "5802118" "5835295"                             |        |    |     |                  |
|            |            | "5892632" "5926490" "5961658"                             |        |    |     |                  |
|            |            | "5966415" "6246723" "6243673"                             |        |    |     |                  |
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|            |            | "4893910" "4970621" "5371721"                             |        |    |     |                  |
|            |            | "5450383" "6141162" "4339770"                             |        |    |     |                  |
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| S21       | 150                     | ("5796535" "5966258" "5648952"<br>"5745463" "5956313" "5420837"                | USPAT | OR | ON | 2003/06/24 08:1 |
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|           |                         | "5909332" "5333140" "5856964"  |       |    |    |                 |
|           |                         | "5903537" "4882639" "5543975"  |       | İ  |    |                 |
|           |                         | "5872665" "5241524" "5321672"  |       |    |    |                 |
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|           |                         | "5764431" "5802032" "5802031"  |       |    |    |                 |
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| İ         |                         | "6067284" "6115344" "6137646"  |       |    |    |                 |
| i         |                         | "6205102" "6208479" "6243339"  |       |    |    |                 |
|           |                         | "6285647" "6305629" RE37818  |       |    |    |                 |
|           |                         | "6445522" "6473378" "6487151"  |       |    |    |                 |
|           |                         | "4791627" "4841383" "5001692"  |       |    |    |                 |
|           |                         | "5307214" "4341964" "4410817"  |       |    |    |                 |
|           |                         | "4525753" "5236735" "5359467"  |       |    |    |                 |
|           |                         | "5537379" "5638225" "5682367"  |       |    |    |                 |
|           |                         | "5757576" "5761170" "577 <del>444</del> 0"                                     |       |    |    |                 |
|           |                         | "5818̀807" "5828629" "5859825"   |       |    |    |                 |
|           |                         | "6028834" "6301068" "5386405"  |       |    |    |                 |
|           |                         | "6269060" "6504807").pn.   |       |    |    |                 |
|           |                         | ("5412626" "5703855" "5848045"   |       |    |    |                 |
|           |                         | "4835759" "5732061" "5790482"  |       |    |    |                 |
|           |                         | "5487059" "5513165" "5712839"  |       |    |    |                 |
|           |                         | "5424881" "5463600" "5481525"  |       |    |    | •               |
|           |                         | "5502711" "5561642" "5577019"  |       |    |    |                 |
|           |                         | "5581535" "5590111" "5745467"  |       |    |    |                 |
|           |                         | "5812334" "5887010" "5909331"  |       |    |    |                 |
|           |                         | "5956357" "5978334" "6490302"  |       |    |    |                 |
|           |                         | "5204848" "6069759" "5668678"  |       |    |    |                 |
|           |                         | "6144513" "6052248" "6076063"  |       |    |    |                 |
|           |                         | "5771127" "5802118" "5835295"  |       |    |    |                 |
|           |                         | "5892632" "5926490" "5961658"  |       |    |    |                 |
|           |                         | "5966415" "6246723" "6243673"  |       |    |    |                 |
| ļ         |                         | "5614960" "5526333" "5914927"  |       |    |    |                 |
| 1         |                         | "4987500" "5629890" "5963462"  |       |    |    |                 |
|           |                         | "4350456" "4553178" "4847558"  |       |    |    |                 |
|           |                         | "4946762" "5029017").pn.<br>("5298998" "5469422" "5594553"                     |       |    |    |                 |
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|           |                         | "6175456" "6307692" "4888750"  |       |    |    |                 |
|           |                         | "5872763" "5912637" "5640381"  |       |    |    |                 |
| 1         |                         | 5872763 5912637 5640381<br>  "4893910" "4970621" "5371721"                     |       |    |    |                 |
|           |                         |  |       |    |    |                 |
| earch Hi  | story 4/21              | "5450383" "6141162" "4339770"<br>  0512:00:37 RM566092" "4271334"<br>  4558441 |       |    |    |                 |
| ::\APPS\E | EAST\Works <sub>I</sub> | / "4 <b>55</b> 8441" "4566 <b>092</b> " "4271334"<br>                          |       |    |    |                 |

| S22           | 7       | (("5796535" "5966258" "5648952"   | USPAT | OR | ON | 2003/06/24 14: |
|---------------|---------|---|-------|----|----|----------------|
|               |         | "5745463" "5956313" "5420837"   |       |    |    |                |
|               |         | "5257256" "5592456" "5602806"   |       |    |    |                |
|               |         | "5629913" "5642343" "5784348"   |       |    |    |                |
|               |         | "5991252" "6058084" "6192017"   |       | ]  |    |                |
|               |         | "6411579" "6108151" "5987542"   |       |    |    |                |
|               |         | "6028728" "6075663" "5600502"   |       | 1  |    |                |
|               |         | "5841601" "5854714" "5696639"   |       |    |    |                |
|               |         | "5726818" "5760984" "5812336"   |       |    |    |                |
|               |         | "5909332" "5333140" "5856964"   |       |    |    |                |
|               |         | "5903537" "4882639" "5543975"   |       |    |    |                |
| ] ]           |         | "5872665" "5241524" "5321672"   |       |    |    |                |
|               |         | "5544135" "5568465" "5367514"   |       |    |    |                |
|               |         | "5383175" "5561656" "5631887"   |       |    |    |                |
|               |         | "5757735" "5327411" "5339298"   |       |    |    |                |
|               |         | "5530688" "5777964" "5920534"   |       |    |    |                |
|               |         | "6031814" "6115350").pn.  |       |    |    |                |
|               |         | ("4809090" "4904938" "5400313"  |       | -  |    |                |
|               |         | "5406540" "5438581" "5576905"   |       |    |    |                |
|               |         | "5650882" "5706265" "5754351"   |       |    |    |                |
|               |         | "5764431" "5802032" "5802031"   |       |    |    |                |
|               |         | "5852523" "5909387" "6018507"   |       |    |    |                |
|               |         | "6067284" "6115344" "6137646"   |       |    |    |                |
|               |         | "6205102" "6208479" "6243339"   |       |    |    |                |
|               |         | "6285647" "6305629" RE37818   |       |    |    |                |
|               |         | "6445522" "6473378" "6487151"   |       |    |    |                |
|               |         |   |       |    |    |                |
|               |         | "4791627" "4841383" "5001692"   | ,     |    |    |                |
|               |         | "5307214" "4341964" "4410817"   |       |    |    |                |
|               |         | "4525753" "5236735" "5359467"   |       |    |    |                |
|               |         | "5537379" "5638225" "5682367"   |       |    |    |                |
|               |         | "5757576" "5761170" "5774440"   |       |    |    |                |
|               |         | "5818807" "5828629" "5859825"   |       |    |    |                |
|               |         | "6028834" "6301068" "5386405"   |       |    | ]  |                |
| <b>i</b> :    |         | "6269060" "6504807").pn.  |       |    |    |                |
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|               |         | "5424881" "5463600" "5481525"   |       |    |    |                |
|               |         | "5502711" "5561642" "5577019"   |       |    |    |                |
|               |         | "5581535" "5590111" "5745467"   |       |    |    |                |
|               |         | "5812334" "5887010" "5909331"   |       |    | 1  |                |
|               |         | "5956357" "5978334" "6490302"   |       |    |    |                |
|               |         | "5204848" "6069759" "5668678"   |       |    |    |                |
|               |         | "6144513" "6052248" "6076063"   |       |    |    |                |
|               |         | "5771127" "5802118" "5835295"   |       |    |    |                |
|               |         | "5892632" "5926490" "5961658"   | ,     |    |    |                |
|               |         | "5966415" "6246723" "6243673"   |       |    |    | ĺ              |
|               |         | "5614960" "5526333" "5914927"   |       |    |    |                |
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| ]             |         | "4350456" "4553178" "4847558"   |       |    |    |                |
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|               |         | ("5298998" "5469422" "5594553"  |       |    |    |                |
|               |         | "5745414" "5754470" "5963029"   |       |    |    |                |
|               |         | "6175456" "6307692" "4888750"   |       |    |    |                |
|               |         | "5872763" "5912637" "5640381"   |       |    |    |                |
|               |         | "4893910" "4970621" "5371721"   |       |    |    |                |
|               |         |   |       |    |    |                |
| Search Histon | 4/21    |   |       |    |    |                |
| C:\APPS \EAST | ∖Worksp | 4558441" 4566092" "4271334"<br>aces 11 gy0827 W51<br>4541026" "4554597" "4561083" |       |    |    |                |
|               |         | "461000" "4614070" "4817007"  |       |    |    |                |
| 1             | ı       | "461  |       | I  | I  | I              |

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|----------|--------------------------|--|--------|-----|-----|------------------|
| S23      | 8                        | (("5796535" "5966258" "5648952"  | USPAT  | OR  | ON  | 2003/06/24 09:22 |
|          |                          | "5745463" "5956313" "5420837"  |        |     |     |                  |
|          |                          | "5257256" "5592456" "5602806"  |        |     |     |                  |
|          |                          | "5629913" "5642343" "5784348"  |        |     |     |                  |
|          |                          | "5991252" "6058084" "6192017"  |        |     |     |                  |
|          |                          | "6411579" "6108151" "5987542"  |        |     |     |                  |
|          |                          | "6028728" "6075663" "5600502"  |        |     |     |                  |
|          |                          | "5841601" "5854714" "5696639"  |        |     |     |                  |
|          |                          | "5726818" "5760984" "5812336"  |        |     |     |                  |
|          |                          | "5909332" "5333140" "5856964"  |        | Ì   |     |                  |
|          |                          | "5903537" "4882639" "5543975"  |        |     |     |                  |
|          |                          |  |        |     |     |                  |
|          |                          | "5872665" "5241524" "5321672"  |        |     |     | ,                |
|          |                          | "5544135" "5568465" "5367514"  |        |     |     |                  |
|          |                          | "5383175" "5561656" "5631887"  |        |     |     |                  |
|          |                          | "5757735" "5327411" "5339298"  |        |     |     |                  |
|          |                          | "5530688" "5777964" "5920534"  |        |     |     |                  |
|          |                          | "6031814" "6115350").pn.   |        |     |     |                  |
|          |                          | ("4809090" "4904938" "5400313"   |        |     |     |                  |
|          |                          | "5406540" "5438581" "5576905"  |        |     |     |                  |
|          |                          | "5650882" "5706265" "5754351"  |        |     |     |                  |
|          |                          | "5764431" "5802032" "5802031"  |        |     |     |                  |
|          |                          | "5852523" "5909387" "6018507"  |        |     |     |                  |
|          |                          | "6067284" "6115344" "6137646"  |        |     |     |                  |
|          |                          | "6205102" "6208479" "6243339"  |        |     |     |                  |
|          |                          | "6285647" "6305629" RE37818  |        |     |     |                  |
|          |                          | "6445522" "6473378" "6487151"  |        |     |     |                  |
|          |                          |  |        |     |     |                  |
|          |                          | "4791627" "4841383" "5001692"  |        |     |     |                  |
|          |                          | "5307214" "4341964" "4410817"  | :      |     |     | ,                |
| *        |                          | "4525753" "5236735" "5359467"  |        |     |     |                  |
|          |                          | "5537379" "5638225" "5682367"  |        |     |     |                  |
|          |                          | "5757576" "5761170" "5774 <del>44</del> 0"   |        |     |     |                  |
|          |                          | "5818807" "5828629" "5859825"  |        |     |     | ,                |
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|          |                          | "6269060" "6504807").pn.   |        |     |     |                  |
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|          |                          | "5487059" "5513165" "5712839"  |        |     |     |                  |
|          |                          | "5424881" "5463600" "5481525"  |        |     |     |                  |
|          |                          | "5502711" "5561642" "5577019"  |        |     |     |                  |
|          |                          | "5581535" "5590111" "5745467"  |        |     |     |                  |
|          |                          | "5812334" "5887010" "5909331"  |        |     |     |                  |
|          |                          | "5956357" "5978334" "6490302"  |        |     |     |                  |
|          |                          | "5204848" "6069759" "5668678"  |        |     |     |                  |
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|          |                          | "5771127" "5802118" "5835295"  |        |     |     |                  |
|          |                          | _  |        |     | İ   |                  |
|          |                          | "5892632" "5926490" "5961658"  |        |     |     |                  |
|          |                          | "5966415" "6246723" "6243673"  |        |     |     |                  |
|          |                          | "5614960" "5526333" "5914927"  |        |     |     |                  |
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|          |                          | "4946762" "5029017").pn.   | 1      |     |     |                  |
|          |                          | ("5298998" "5469422" "5594553"   | 1      |     |     |                  |
|          |                          | "5745414" "5754470" "5963029"  |        | .   |     |                  |
|          |                          | "6175456" "6307692" "4888750"  | 1      |     |     |                  |
|          |                          | "5872763" "5912637" "5640381"  | !      |     |     |                  |
|          |                          | "4893910" "4970621" "5371721"  |        |     |     |                  |
|          |                          |  |        |     |     |                  |
| Search H | listory 4/21             | "5450383" "6141162" "4339770"<br>  10541230347 RM 565095'8"4271334"<br>  105412834412834566095'8"4271334 |        |     |     |                  |
| C:\APPS  | \EAST\Works <sub> </sub> | 74558441" 34566092" 42/1334"<br>7aces 1026" 4554597" "4561083"   |        |     |     | [                |
|          |                          | "4610000" "4614070" "4817007"  |        |     |     |                  |
| •        |                          |  | •      |     | •   | · •              |

| S24 | 17  | @pd<"19990723" and writ\$3 and circuit and ((adapt\$4 or fit\$4 or alter\$4 or chang\$4 or adjust\$4 or modify\$4) near pulse) and optic\$3 and (369/59.11.ccls. or 369/59.12.ccls.) | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB | OR | ON  | 2003/06/24 09:59 |
|-----|-----|--|--|----|-----|------------------|
| S25 | O   | @pd<"19990723" and (369/59.11.<br>ccls. or 369/59.12 ccls.) and<br>(multi\$1pulse adj train)   | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB | OR | ON  | 2003/06/24 10:00 |
| S26 | 23  | @pd<"19990723" and (369/59.11. ccls. or 369/59.12.ccls.) and train   | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB | OR | ON  | 2003/06/24 10:11 |
| S27 | 9   | @pd<"19990723" and (369/59.11.<br>ccls. or 369/59.12.ccls.) and<br>("falling edge")  | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB | OR | ON  | 2003/06/24 10:11 |
| S28 | 96  | @pd<"19990723" and (369/59.11. ccls. or 369/59.12.ccls.)   | US-PGPUB;<br>USPAT;<br>JPO;<br>IBM_TDB | OR | ON  | 2003/06/24 10:19 |
| S29 | 913 | @pd<"19990723" and (writ\$4? same adaptive)  | USPAT                                  | OR | ON  | 2003/06/24 12:53 |
| S30 | 1   | ("4907212").PN.  | USPAT;<br>USOCR                        | OR | OFF | 2003/06/24 10:23 |
| S31 | 1   | ("5568461").PN.  | USPAT;<br>USOCR                        | OR | OFF | 2003/06/24 10:24 |
| S32 | 1   | ("5642343").PN.  | USPAT;<br>USOCR                        | OR | OFF | 2003/06/24 10:25 |

| S33     | 1            | (("5796535" "5966258" "5648952"  | USPAT | OR  | ON           | 2003/06/24 12:54 |
|---------|--------------|--|-------|-----|--------------|------------------|
|         |              | "5745463" "5956313" "5420837"<br>"5257256" "5592456" "5602806"                     |       |     |              |                  |
|         |              | "5629913" "5642343" "5784348"  |       |     |              |                  |
|         | :            | "5991252" "6058084" "6192017"  |       |     |              |                  |
|         |              | "6411579" "6108151" "5987542"  |       |     |              |                  |
|         |              | "6028728" "6075663" "5600502"  |       |     |              |                  |
|         |              | "5841601" "5854714" "5696639"  |       |     |              |                  |
|         |              | "5726818" "5760984" "5812336"  |       | :   |              |                  |
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|         |              | "5903537" "4882639" "5543975"  |       |     |              |                  |
|         |              | "5872665" "5241524" "5321672"  |       |     |              |                  |
|         |              | "5544135" "5568465" "5367514"  |       | · · |              |                  |
|         |              | "5383175" "5561656" "5631887"  |       |     |              |                  |
|         |              | "5757735" "5327411" "5339298"  |       |     |              |                  |
|         |              | "5530688" "5777964" "5920534"  |       |     |              |                  |
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|         |              | "5650882" "5706265" "5754351"  |       |     |              |                  |
|         |              | "5764431" "5802032" "5802031"  |       |     |              |                  |
|         |              | "5852523" "5909387" "6018507"  |       |     |              |                  |
|         |              | "6067284" "6115344" "6137646"  |       |     |              |                  |
|         |              | "6205102" "6208479" "6243339"  |       |     |              |                  |
|         |              | "6285647" "6305629" RE37818  |       | •   |              |                  |
|         |              | "6445522" "6473378" "6487151"  |       |     |              |                  |
|         |              | "4791627" "4841383" "5001692"  |       | 1   |              |                  |
|         |              | "5307214" "4341964" "4410817"  |       |     |              |                  |
|         |              | "4525753" "5236735" "5359467"  |       |     |              |                  |
|         |              | "5537379" "5638225" "5682367"  |       |     |              |                  |
|         |              | "5757576" "5761170" "577:4440"   | 4     |     |              |                  |
|         |              | "5818807" "5828629" "5859825"<br>"6028834" "6301068" "5386405"                     |       |     |              |                  |
|         |              |  |       |     |              |                  |
|         |              | "6269060" "6504807").pn.<br>("5412626" "5703855" "5848045"                         |       |     |              |                  |
|         |              | "4835759" "5732061" "5790482"  |       |     |              |                  |
|         |              | "5487059" "5513165" "5712839"  |       |     |              |                  |
|         |              | "5424881" "5463600" "5481525"  |       |     |              |                  |
|         |              | "5502711" "5561642" "5577019"  |       |     |              |                  |
|         |              | "5581535" "5590111" "5745467"  |       |     |              |                  |
|         | ,            | "5812334" "5887010" "5909331"  |       |     |              |                  |
|         |              | "5956357" "5978334" "6490302"  |       |     |              |                  |
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|         |              | "6144513" "6052248" "6076063"  |       |     |              |                  |
|         |              | "5771127" "5802118" "5835295"  |       |     |              |                  |
|         |              | "5892632" "5926490" "5961658"  |       |     |              |                  |
|         |              | "5966415" "6246723" "6243673"  |       |     |              |                  |
|         |              | "5614960" "5526333" "5914927"  |       |     |              |                  |
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|         |              | ("5298998" "5469422" "5594553"   |       |     |              |                  |
|         |              | "5745414" "5754470" "5963029"  |       |     | ľ            |                  |
|         | 1            | "6175456" "6307692" "4888750"  |       |     |              |                  |
|         |              | "5872763" "5912637" "5640381"  | ļ     |     |              |                  |
|         |              | "4893910" "4970621" "5371721"  |       |     |              |                  |
| Search  | History 4/21 | "5450383" "6141162" "4339770"<br>  7051730037 RM560398 "104271334"<br>  7051730038 |       |     | <del> </del> | <del> </del>     |
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|         |              | "4541026" "4554597" "4561083"  |       |     |              |                  |
|         | 1            | "461000" "4614070" "4817007"   | 1     | 1   | •            | •                |

| S34 | 5                    | ("6560182" "6548137" "6515952"<br>"6438085" "6188656").pn.  | USPAT   | OR | ON  | 2003/06/24 14:01  |
|-----|----------------------|---|---|----|-----|-------------------|
| S35 | 6                    | ("5327411" "5418770" "5636194" "5850378" "6018508" "6044055").  | USPAT   | OR | ON  | 2003/09/22 10:29  |
| S36 |                      | pn.   | LICDAT  | 00 | ON. | 2002/00/22 10 20  |
| S37 | l<br>Haritan Hilizek | "5568461".pn.   | USPAT   | OR | ON  | 2003/09/22 10:29  |
| 53/ | 45                   | shoji-mamoru.in. and (mark same space)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2004/08/05 12:47  |
| S38 | 9                    | ("5490126"   "5499227"  <br>"5513165"   "5517481"  <br>"5590111"   "5615193"  <br>"5636194"   "5642343"  <br>"5732061").PN.   | USPAT   | OR | ON  | 2004/02/04 15:10  |
| S39 | 12107                | Seo.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2004/02/04 15:20  |
| S40 | 174                  | seo.in. and joo.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2004/02/04 15:21  |
| S41 | 21                   | seo.in. and joo.in. and yoon.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2004/02/04 15:27  |
| S42 | 54                   | "369"/\$7.ccls. and (mark same<br>space same (first adj pulse) same<br>(last adj pulse))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2004/02/04 15:28  |
| S43 | 34                   | "369"/\$7.ccls. and (mark same<br>space same (first adj pulse) same<br>(last adj pulse))  | USPAT   | OR | ON  | .2004/02/04 18:39 |
| S44 | 84                   | "369"/\$7.ccls. and (((lead\$3 preced\$3 front) near3 (mark space)) with (delay\$3 tim\$3 detect\$3)) and (((follow\$3 trail\$3 back) near3 (mark space)) with (delay\$3 tim\$3 detect\$3)) | USPAT   | OR | ON  | 2004/02/04 18:44  |
| S45 | 61                   | furukawa.in. and (leading same<br>trailing)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2004/02/04 18:44  |

| S46 | 32  | furukawa.in. and (leading same trailing same detect\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/04 18:44 |
|-----|-----|---|---|----|----|------------------|
| S47 |     | "6345026".pn.   | USPAT   | OR | ON | 2004/02/05 09:00 |
| S48 | 2   | ("5751689"   "6269062").PN.   | USPAT   | OR | ON | 2004/02/05 10:19 |
| S49 | 4   | ("5216657"   "5490126"  <br>"5636194"   "6101159").PN.  | USPAT   | OR | ON | 2004/02/05 10:20 |
| S50 | 389 | (pulse near3 width) with zone   | USPAT   | OR | ON | 2004/02/05 12:24 |
| S51 | 70  | ((pulse near3 width) with zone)<br>and "369"/\$7.ccls.  | USPAT   | OR | ON | 2004/02/05 12:01 |
| S52 | 24  | ((pulse near3 width) with zone) same memory   | USPAT   | OR | ON | 2004/02/05 12:03 |
| S53 | 64  | (((pulse near3 width) with zone)<br>and "369"/\$7.ccls.) and (pulse<br>with (adjust\$4 control\$4 delay\$3))  | USPAT   | OR | ON | 2004/02/05 12:05 |
| S54 | 7   | (((pulse near3 width) with zone)<br>and "369"/\$7.ccls.) and (pulse<br>with (adjust\$4 control\$4 delay\$3))<br>and ((leading preceding first)<br>near2 pulse) and ((following<br>trailing last) near2 pulse) | USPAT   | OR | ON | 2004/02/05 14:08 |
| S55 | 4   | ("6108289"   "6172955"  <br>"6418102"   "6480449").PN.  | USPAT   | OR | ON | 2004/02/05 12:22 |
| S56 | 126 | (pulse near3 width) with zone with (adjust\$4 control\$4 compensat\$4 delay\$4 correcting)  | USPAT   | OR | ON | 2004/02/05 12:25 |
| S57 | 125 | (pulse near3 width) with zone with (adjust\$4 control\$4 compensat\$4 delay\$4)   | USPAT   | OR | ON | 2004/02/05 12:25 |
| S58 | 21  | (pulse near3 width) with zone with (adjust\$4 control\$4 compensat\$4 delay\$4) and "369"/\$7.ccls.   | USPAT   | OR | ON | 2004/02/05 12:28 |
| S59 | 22  | pulse with width with zone with (adjust\$4 control\$4 compensat\$4 delay\$4) and "369"/\$7.ccls.  | USPAT   | OR | ON | 2004/02/05 12:28 |
| S60 | 239 | (process\$3 adj (data information)<br>adj (record\$3 writ\$4) adj3 (disc<br>media disk carrier record storage))   | USPAT   | OR | ON | 2004/02/05 14:10 |
| S61 | 54  | (process\$3 adj (data information)<br>adj (record\$3 writ\$4) adj3 (disc<br>media disk carrier record storage))<br>and "369"/\$7.ccls.  | USPAT   | OR | ON | 2004/02/05 14:11 |

| S62 | 0   | (processor with ((process processing processed) adj (data information) adj (record\$3 writ\$4) adj3 (disc media disk carrier record storage))) and "369"/\$7. ccls. | USPAT   | OR . | ON | 2004/02/05 14:12 |
|-----|-----|---|---|------|----|------------------|
| S63 | 5   | (processor with ((process processing processed) adj (data information) adj (record\$3 writ\$4))) and "369"/\$7.ccls.  | USPAT   | OR   | ON | 2004/02/05 14:12 |
| S64 | 724 | hei.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2004/08/05 12:31 |
| S65 | 0   | hei.in. and "9-81937"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2004/08/05 12:31 |
| S66 | 0   | hei.in. and 9-81937.pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2004/08/05 12:31 |
| S67 | 0   | 9-81937.pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2004/08/05 12:31 |
| S68 | 0   | 09-81937.pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2004/08/05 12:36 |
| S69 | 37  | tamai-koji.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2004/08/05 12:38 |
| S70 | 9   | ("5490126"   "5499227"  <br>"5513165"   "5517481"  <br>"5590111"   "5615193"  <br>"5636194"   "5642343"  <br>"5732061").PN.   | USPAT   | OR   | ON | 2004/08/05 12:41 |
| S71 | 60  | "369"/\$7.ccls. and<br>((three\$1by\$1three (three adj by<br>three) ("3" adj by adj "3") "3x3")<br>adj2 table)  | USPAT   | OR   | ON | 2004/08/05 12:49 |

| S72  | 447 | "369"/\$7.ccls. and ((three\$1by\$1three (three adj by three) ("3" adj by adj "3") "3x3") with table)   | USPAT | OR | ON | 2004/08/05 12:49 |
|------|-----|---|-------|----|----|------------------|
| S73  | 2   | "369"/\$7.ccls. and<br>((three\$1by\$1three (three adj by<br>three) ("3" adj by adj "3") "3x3")<br>adj2 table) and (table with (mark<br>space) with (length width))   | USPAT | OR | ON | 2004/08/05 12:50 |
| S74  |     | "369"/\$7.ccls. and (table with (mark space) with (length width))   | USPAT | OR | ON | 2004/08/05 12:51 |
| S75  | 49  | "369"/\$7.ccls. and (table with<br>mark with space with (length<br>width))  | USPAT | OR | ON | 2004/08/05 13:01 |
| S76  | 10  | "369"/\$7.ccls. and ((three adj<br>group) with mark with space with<br>(length width))  | USPAT | OR | ON | 2004/08/05 13:02 |
| S77  | 11  | "369"/\$7.ccls. and ((three adj<br>group) with mark with (length<br>width))   | USPAT | OR | ON | 2004/08/05 13:12 |
| S78  | 58  | "369"/\$7.ccls. and (((table group) with mark with (length width)) same ((table group) with space with (length width)))   | USPAT | OR | ON | 2004/08/05 13:13 |
| S79  | 48  | "369"/\$7.ccls. and (((table group) with mark with (length width)) same ((table group) with space with (length width))) not ("369"/\$7.ccls. and ((three adj group) with mark with space with (length width)))                          | USPAT | OR | ON | 2004/08/05 13:14 |
| \$80 | 29  | ("369"/\$7.ccls. and (((table group) with mark with (length width)) same ((table group) with space with (length width))) not ("369"/\$7.ccls. and ((three adj group) with mark with space with (length width)))) not (bailey baily).in. | USPAT | OR | ON | 2004/08/05 13:14 |
| S81  | 1   | "5598392".PN.   | USPAT | OR | ON | 2004/08/05 13:15 |
| S82  | 1   | "5598392".PN.   | USPAT | OR | ON | 2004/08/05 13:15 |
| S83  | 9   | "5796693".URPN.   | USPAT | OR | ON | 2004/08/05 13:15 |
| S84  | 3   | 369/59.11.ccls. and (short with middle with long)   | USPAT | OR | ON | 2004/09/08 17:21 |
| S85  | 17  | 369/59.11.ccls. and (combination with mark with space)  | USPAT | OR | ON | 2004/09/08 17:33 |
| S86  | 3   | 369/59.11.ccls. and (((possible near3 combination) possibilities) with mark with space)   | USPAT | OR | ON | 2004/09/08 17:38 |

| S87      | 10 | 369/59.11.ccls. and ((group\$3 classif\$8) with mark with space)  | USPAT    | OR | ON  | 2004/09/09 13:30 |
|----------|----|---|----------|----|-----|------------------|
| S88      | 6  | 369/59:11.ccls. and ((rang\$3) with<br>mark with space with (length or<br>magnitude))   | USPAT    | OR | ON  | 2004/09/09:09:34 |
| S89      | 14 | 369/59.11.ccls. and (length with mark with space with width)  | USPAT    | OR | ON  | 2004/09/09 13:36 |
| S90      | 30 | 369/59.11 ccls. and ((width length) with mark with space with (adapt\$7 adjust\$4 control\$5 chang\$5))   | USPAT    | OR | ON  | 2004/09/09 13:53 |
| S91      | 46 | "5636194".URPN.   | USPAT    | OR | ON  | 2004/09/09 13:40 |
| S92      | 4  | ("4896313"   "5235590"  <br>"5241524"   "5327411").PN.  | USPAT    | OR | ON  | 2004/09/09 13:48 |
| S93      | 0  | 369/59.11.ccls. and ((pulse near3 width near3 table) with mark with space)  | USPAT    | OR | ON  | 2004/09/09 13:54 |
| S94      | 15 | 369/59.11.ccls. and ((pulse near3 width) with mark with space)  | USPAT    | OR | ON  | 2004/09/09 13:54 |
| S95      | 0  | 369/59.11.ccls. and ((pulse near3 width) with mark with space with (table memory))  | USPAT    | OR | ON  | 2004/09/09 13:55 |
| S96      | 0  | 369/59.11.ccls. and ((pulse near3 width) with mark with space with (table memory group\$4))   | USPAT    | OR | ON  | 2004/09/09 13:55 |
| S97      | 0  | 369/59.11.ccls. and (width with mark with space with (table memory group\$4))   | USPAT    | OR | ON  | 2004/09/09 13:55 |
| S98      | 13 | 369/59.11.ccls. and ((width length) with mark with space with (table memory group\$4))  | USPAT    | OR | ON  | 2004/09/09 13:55 |
| S99      | 8  | ("5216659"   "5418770"  <br>"5463600"   "5495463"  <br>"5745451"   "5777964"  <br>"5790491"   "6154433").PN.  | USPAT    | OR | ON  | 2004/09/09 14:00 |
| S10<br>0 | 14 | ("5029155"   "5185734"  <br>"5268893"   "5490126"  <br>"5640381"   "5732055"  <br>"5790491"   "5802031"  <br>"5887010"   "6104685"  <br>"6115338"   "6222814"  <br>"6236635"   "6510116"  <br>"2001/0043538"  <br>"2002/0054556").PN. | USPAT    | OR | ON. | 2004/09/09 14:09 |
| S10<br>1 | 3  | (mark with (width length)) and (space with (trailing leading preced\$3 front back) with (width length)) and (table group\$3 rang\$3)  | EPO; JPO | OR | ON  | 2004/09/09 16:40 |

| S10<br>2 | 14   | ((nine eighteen) with (combination grouping possibilities) with mark with space)   | USPAT | OR | ON | 2004/09/09 16:47 |
|----------|------|--|-------|----|----|------------------|
| S10<br>3 | 3    | "369"/\$7.ccls. and (adaptive adj<br>writ\$3)  | USPAT | OR | ON | 2004/09/09 16:48 |
| S10<br>4 | 78   | "369"/\$7.ccls. and (mark with space with (length width) with (determin\$5 sensing))   | USPAT | OR | ON | 2004/09/09 16:50 |
| S10<br>5 | 111  | "369"/\$7.ccls. and (mark with<br>space with (length width) with<br>(determin\$5 sensing detect\$3))   | USPAT | OR | ON | 2004/09/09 16:51 |
| S10<br>6 | 22   | "369"/\$7.ccls. and (mark with (space near3 (trail\$3 lead\$3 front back follow\$3)) with (length width) with (determin\$5 sensing detect\$3)) | USPAT | OR | ON | 2004/09/09 16:52 |
| S10<br>7 | 2    | ("5751689"   "6269062").PN.  | USPAT | OR | ON | 2004/09/09 17:01 |
| S10<br>8 | 23   | "5327411".URPN.  | USPAT | OR | ON | 2004/09/09 17:10 |
| S10<br>9 | 1    | "369"/\$7.ccls. and (("9.sup.2" "12.<br>sup.2" "6483791".PN.) with<br>(possibilities combination<br>combin\$3 group\$3))                       | USPAT | OR | ON | 2004/09/09 17:32 |
| S11<br>0 | 45   | "369"/\$7.ccls. and (("144") with (possibilities combination combin\$3 group\$3))  | USPAT | OR | ON | 2004/09/09 17:32 |
| S11<br>1 | O    | "369"/\$7.ccls. and (("144") with (possibilities combination combin\$3 group\$3)) and (mark with space)  | USPAT | OR | ON | 2004/09/09 17:31 |
| S11<br>2 | 0    | 369/59.11.ccls. and (("144") with (possibilities combination combin\$3 group\$3))  | USPAT | OR | ON | 2004/09/09 17:32 |
| S11<br>3 | 0    | 369/59.12.ccls. and (("144") with (possibilities combination combin\$3 group\$3))  | USPAT | OR | ON | 2004/09/09 17:32 |
| S11<br>4 | 1915 | "369"/\$7.ccls. and (("9.sup.2" "12. sup.2" "9" "12") with (possibilities combination combin\$3 group\$3))                                     | USPAT | OR | ON | 2004/09/09 17:33 |
| S11<br>5 | 1484 | "369"/\$7.ccls. and (("9.sup.2" "12.<br>sup.2" "9" "12") with (possibilities<br>combination combine groups<br>groupings))                      | USPAT | OR | ON | 2004/09/09 17:34 |
| S11<br>6 | 14   | 369/59.11.ccls. and (("9.sup.2" "12.sup.2" "9" "12") with (possibilities combination combine groups groupings))                                | USPAT | OR | ON | 2004/09/09 17:34 |

| S11<br>7 | 14 | ("5029155"   "5185734"   "5268893"   "5490126"   "5640381"   "5732055"   "5790491"   "5802031"   "5887010"   "6104685"   "6115338"   "6222814"   "6236635"   "6510116"   "2001/0043538"   "2002/0054556").PN.   | USPAT | OR | ON   | 2004/09/09 17:35 |
|----------|----|---|-------|----|------|------------------|
| S11<br>8 | 5  | ("5029155"   "5185734"  <br>"5268893"   "5490126"  <br>"5640381"   "5732055"  <br>"5790491"   "5802031"  <br>"5887010"   "6104685"  <br>"6115338"   "6222814"  <br>"6236635"   "6510116"  <br>"2001/0043538"  <br>"2002/0054556").PN. and (mark with space) | USPAT | OR | ON . | 2004/09/09 17:35 |
| S14<br>4 | 18 | "369"/\$7.ccls. and (((trail\$3 follow\$3 back) near3 space) same ((lead\$3 preced\$3 front) near3 space) same ((adjust\$4 chang\$3 adapt\$3 control\$4) with ((pulse mark) near3 (width length))))   | USPAT | OR | ON   | 2005/01/21 14:16 |
| S14<br>5 | 6  | 369/59.11.ccls. and (((trail\$3 follow\$3 back) near3 space) same ((lead\$3 preced\$3 front) near3 space) same ((adjust\$4 chang\$3 adapt\$3 control\$4) with ((pulse mark) near3 (width length))))   | USPAT | OR | ON   | 2005/01/21 14:07 |
| S14<br>6 | 18 | "369"/\$7.ccls. and (((trail\$3 follow\$3 back) near3 space) same ((lead\$3 preced\$3 front) near3 space) same ((adjust\$4 chang\$3 adapt\$3 control\$4 variable var\$4) with ((pulse mark) near3 (width length))))   | USPAT | OR | ON   | 2005/01/21 14:17 |
| S14<br>7 | 20 | "369"/\$7.ccls. and (((trail\$3 follow\$3 back) near3 space) same ((lead\$3 preced\$3 front) near3 space) same ((adjust\$4 chang\$3 adapt\$3 control\$4 variable var\$4 shift\$3) with ((pulse mark) near3 (width length))))                                | USPAT | OR | ON   | 2005/01/21 14:30 |
| S14<br>8 | 2  | S147 not S146   | USPAT | OR | ON   | 2005/01/21 14:18 |

| S14<br>9 | 20  | "369"/\$7.ccls. and (((trail\$3 follow\$3 back) near3 space) same ((lead\$3 preced\$3 front) near3 space) same ((adjust\$4 chang\$3 adapt\$3 control\$4 variable var\$4 shift\$3) with ((pulse mark) near3 ((edge near3 (rising falling begin\$4 end\$3 terminat\$3 start\$3)) (width length))))) | USPAT | OR | ON | 2005/01/21 14:33 |
|----------|-----|---|-------|----|----|------------------|
| S15<br>0 | 18  | S149 not S148   | USPAT | OR | ON | 2005/01/21 14:32 |
| S15<br>1 | 0   | S149 not S147   | USPAT | OR | ON | 2005/01/21 14:32 |
| S15      |     | "369"/\$7 ccls. and (((trail\$3 follow\$3 back) near3 space) same ((lead\$3 preced\$3 front) near3 space) same ((adjust\$4 chang\$3 adapt\$3 control\$4 variable var\$4 shift\$3) with (edge near3 (rising falling begin\$4 end\$3 terminat\$3 start\$3))))                                       | USPAT | OR | ON | 2005/01/21 14:34 |
| S15<br>3 | 8   | "369"/\$7.ccls. and (((trail\$3 follow\$3 back) near3 space) same ((lead\$3 preced\$3 front) near3 space) same ((adjust\$4 chang\$3 adapt\$3 control\$4 variable var\$4 shift\$3 mov\$3) with (edge near3 (rising falling begin\$4 end\$3 terminat\$3 start\$3))))                                | USPAT | OR | ÖN | 2005/01/21 14:34 |
| S15<br>4 | 21  | "369"/\$7.ccls. and (((trail\$3 follow\$3 back) near3 space) same ((lead\$3 preced\$3 front) near3 space) and ((adjust\$4 chang\$3 adapt\$3 control\$4 variable var\$4 shift\$3 mov\$3) with (edge near3 (rising falling begin\$4 end\$3 terminat\$3 start\$3))))                                 | USPAT | OR | ON | 2005/01/21 14:36 |
| S15<br>5 | 286 | "369"/\$7.ccls. and ((recording writ\$3) with ((adjust\$3 modif\$4 adapt\$3) near4 (pulse wave\$1form)))  | USPAT | OR | ON | 2005/01/28 14:09 |
| S15<br>6 | 14  | "369"/\$7.ccls. and (((recording writ\$3) with ((adjust\$3 modif\$4 adapt\$3) near4 (pulse wave\$1form))) same (space near3 (magnitude length width)))  | USPAT | OR | ON | 2005/01/28 13:54 |
| S15<br>7 | 31  | "369"/\$7.ccls. and (((recording writ\$3) with ((adjust\$3 modif\$4 adapt\$3) near4 (pulse wave\$1form))) same (space))   | USPAT | OR | ON | 2005/01/28 13:56 |

| S15<br>8  | 5  | "369"/\$7.ccls. and (((recording writ\$3) with ((adjust\$3 modif\$4 adapt\$3) near4 (pulse wave\$1form))) same ((distance length time period space) with (from between) with (previous follow\$3 preced\$3 trail\$3 lead\$3) with (mark pit))) | USPAT                        | OR | ON | 2005/01/28 13:58 |
|-----------|----|--|------------------------------|----|----|------------------|
| \$15<br>9 | 99 | "369"/\$7.ccls. and ((recording<br>writ\$3) with ((adjust\$3 modif\$4<br>adapt\$3) near4 (pulse<br>wave\$1form) near3 (span width<br>length duration)))  | USPAT                        | OR | ON | 2005/01/28 14:10 |
| S16<br>0  | 23 | "369"/\$7.ccls. and (((recording writ\$3) with ((adjust\$3 modif\$4 adapt\$3) near4 (pulse wave\$1form) near3 (span width length duration))) same (space with (span width length duration)))   | USPAT                        | OR | ON | 2005/01/28 14:18 |
| S16<br>1  | 26 | "369"/\$7.ccls. and ((((adjust\$3<br>modif\$4 adapt\$3) near4 (pulse<br>wave\$1form) near3 (span width<br>length duration))) same (space<br>with (span width length<br>duration)))   | USPAT                        | OR | ON | 2005/01/28 14:19 |
| S16<br>2  | 3  | S161 not S160  | USPAT                        | OR | ON | 2005/01/28 14:19 |
| \$16<br>3 | 12 | ("4718068"   "4761775"  <br>"4793812"   "4841504"  <br>"4891690"   "5067120"  <br>"5631887"   "5790332"  <br>"5802031"   "6028828"  <br>"6069864"   "6483791").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/01/28 14:21 |
| S16<br>4  | 3  | S163 and (space with (length width duration magnitude size))   | USPAT                        | OR | ON | 2005/01/28 14:23 |
| S16<br>5  | 4  | S163 and ((gap space (between adj marks!)) with (length width duration magnitude size))  | USPAT                        | OR | ON | 2005/01/28 14:26 |
| S16<br>6  | 8  | ("5216659"   "5418770"  <br>"5463600"   "5495463"  <br>"5745451"   "5777964"  <br>"5790491"   "6154433").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/01/28 14:26 |
| S16<br>7  | 1  | S166 and ((gap space (between<br>adj marks!)) with (length width<br>duration magnitude size))  | USPAT                        | OR | ON | 2005/01/28 14:36 |
| S16<br>8  | 1  | "5561656".pn. and ((gap space<br>(between adj marks!)) with<br>(length width duration magnitude<br>size))  | USPAT                        | OR | ON | 2005/01/31 13:54 |

| S16<br>9 | 47  | ("5418770").URPN.   | USPAT                        | OR | ON | 2005/01/31 13:27 |
|----------|-----|---|------------------------------|----|----|------------------|
| S17<br>0 | 18  | S169 and ((gap space (between adj marks!)) with (length width duration magnitude size))   | USPAT                        | OR | ON | 2005/01/31 13:55 |
| S17<br>1 | 6   | ("4866692"   "4873680"  <br>"5347505"   "5418770"  <br>"5475657"   "5732061").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/01/31 14:48 |
| S17<br>2 | 11  | "369"/\$7.ccls: and (((writ\$3 record\$3) with ((adjust\$5 adapt\$3 modif\$8) near3 (width length edge) near3 (pulse mark pit wave wave\$1form\$1))) same (((space gap) near3 (trail\$3 follow\$3 subsequent)) ((distance length) near3 (between seperat\$3)))) | USPAT                        | OR | ON | 2005/01/31 14:55 |
| S17<br>3 | 2   | ("5751689"   "6269062").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/01/31 14:57 |
| S17<br>4 | 11  | ("5327411"   "5418770"  <br>"5490126"   "5499227"  <br>"5568461"   "5636194"  <br>"5642343"   "5745467"  <br>"5850378"   "6018508"  <br>"6044055").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/01/31 15:16 |
| S17<br>5 | 8   | S174 and ((gap space (between<br>adj marks!)) with (length width<br>duration magnitude size))   | USPAT                        | OR | ON | 2005/01/31 15:17 |
| S17<br>6 | 8   | ("5150351"   "5291470"  <br>"5347505"   "5367514"  <br>"5412626"   "5798996"  <br>"5802032"   "5848043").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/01/31 17:57 |
| S17<br>7 | 722 | "369"/\$7.ccls. and ((space gap) near3 (adjacent after trail\$3 follow\$3 subsequent))  | USPAT                        | OR | ON | 2005/01/31 17:59 |
| S17<br>8 | 746 | "369"/\$7.ccls. and ((space gap)<br>near3 (neighbor\$3 adjacent after<br>trail\$3 follow\$3 subsequent))  | USPAT                        | OR | ON | 2005/01/31 18:00 |
| S17<br>9 | 210 | "369"/\$7.ccls. and ((space gap) near3 (neighbor\$3 adjacent after trail\$3 follow\$3 subsequent) with (mark pit))  | USPAT                        | OR | ON | 2005/01/31 18:00 |
| S18<br>0 | 210 | "369"/\$7.ccls. and (((space gap)<br>near3 (neighbor\$3 adjacent after<br>trail\$3 follow\$3 subsequent)) with<br>(mark pit))   | USPAT                        | OR | ON | 2005/01/31 18:00 |
| S18<br>1 | 234 | "369"/\$7.ccls. and (((space gap) near3 (neighbor\$3 adjacent after trail\$3 follow\$3 subsequent)) with (mark pit pulse))  | USPAT                        | OR | ON | 2005/01/31 18:01 |

| S18<br>2 | 34   | "369"/\$7.ccls. and ((((space gap) near3 (neighbor\$3 adjacent after trail\$3 follow\$3 subsequent)) with (mark pit pulse)) same (width near3 pulse))  | USPAT                        | OR   | ON | 2005/01/31 18:07 |
|----------|------|--|------------------------------|------|----|------------------|
| S18<br>3 | 10   | "369"/\$7.ccls: and ((((space gap) near3 (neighbor\$3 adjacent after trail\$3 follow\$3 subsequent)) with (mark pit pulse)) same ((width near3 pulse) with (adjust\$5 adapt\$3 mov\$3 delay\$3 optimiz\$3 compensat\$3 correct\$4))) | USPAT                        | OR   | ON | 2005/01/31 18:04 |
| S18<br>4 | 1    | ("6104682").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | ON | 2005/01/31 18:06 |
| S18<br>5 | 71   | "369"/\$7 ccls, and ((space gap)<br>near3 (size magnitude length)<br>near3 (detect\$3 measur\$3))  | USPAT                        | OR   | ON | 2005/02/02 14:29 |
| S18<br>6 | 5146 | (seo joo yoon roh).in.   | USPAT                        | OR . | ON | 2005/04/15 15:42 |
| S18<br>7 | 2    | (seo and joo and yoon and roh).in.   | US-PGPUB;<br>USPAT           | OR   | ON | 2005/04/15 15:43 |
| S18<br>8 | 1    | "4423502".pn.  | USPAT                        | OR   | ON | 2005/04/18 17:01 |